Title (en)

Architecture for a universal serial bus-based PC flash disk

Title (de)

Architektur für eine USB-basierten PC-Flashfestplattenspeicherkarte

Title (fr)

Architecture pour dispositif de disque mémoire flash avec USB

Publication

EP 1548604 B1 20091230 (EN)

Application

EP 05075031 A 20000320

Priority

- EP 00916466 A 20000320
- US 28570699 A 19990405

Abstract (en)

[origin: EP2163991A2] A storage unit made of a flash array (58) and a Universal Serial Bus (USB) controller (56) is implemented to be compatible with the USB specification. The unit (46) includes memory modules (58) which can accept write commands and read commands from a host (44), and are erasable and non-volatile, referred to as flash modules (58). The USB/flash controller (56) is configured to provide USB functionality and compatibility along with common flash operations such as programming, reading, and erasing the flash modules (58).

IPC 8 full level

G06F 13/10 (2006.01); **G06F 13/36** (2006.01); **G06F 3/06** (2006.01); **G06F 3/08** (2006.01); **G06F 13/38** (2006.01); **G11C 7/10** (2006.01); **H04M 1/72409** (2021.01)

CPC (source: EP KR US)

G06F 3/0607 (2013.01 - EP US); **G06F 3/0661** (2013.01 - EP US); **G06F 3/0679** (2013.01 - EP US); **G06F 13/36** (2013.01 - KR); **G06F 13/385** (2013.01 - EP US); **G11C 7/1006** (2013.01 - EP US); **H04M 1/72409** (2021.01 - EP US)

Cited by

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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0060476 A1 20001012; AT E295570 T1 20050515; AT E453896 T1 20100115; AT E467308 T1 20100515; AU 2003268851 A1 20040122; AU 2003268851 B2 20051124; AU 2008202866 A1 20080724; AU 2008202866 B2 20110303; AU 2010257369 A1 20110120; AU 2010257369 B2 20120920; AU 3756400 A 20001023; AU 766478 B2 20031016; BR 0006063 A 20010320; BR 0006063 B1 20140722; CA 2334113 A1 20001012; CN 100385426 C 20080430; CN 101345077 A 20090114; CN 101345077 B 20140827; CN 1264100 C 20060712; CN 1304509 A 20010718; CN 1527210 A 20040908; CN 1937073 A 20070328; CY 1109871 T1 20140910; CY 1111146 T1 20150611; DE 20023887 U1 20070215; DE 60020046 D1 20050616; DE 60020046 T2 20060126; DE 60020046 T3 20100114; DE 60043623 D1 20100211; DE 60044381 D1 20100617; DK 1548604 T3 20100322; DK 1746513 T3 20100809; EP 1092193 A1 20010418; EP 1092193 A4 20020731; EP 1092193 B1 20050511; EP 1092193 B2 20090916; EP 1548604 A2 20050629; EP 1548604 A3 20060913; EP 1548604 B1 20091230; EP 1746513 A2 20070124; EP 1746513 A3 20081126; EP 1746513 B1 20100505; EP 2120435 A2 20091118; EP 2120435 A3 20100505; EP 2120435 B1 20130424; EP 2163991 A2 20100317; EP 2163991 A3 20100505; EP 2163991 B1 20130424; ES 2241593 T3 20051101; ES 2241593 T5 20100331; ES 2339255 T3 20100518; ES 2344359 T3 20100825; HK 1065869 A1 20050304; IL 139662 A0 20020630; IL 139662 A 20040328; IL 158578 A0 20040512; IL 158578 A 20061210; JP 2002541554 A 20021203; JP 2006031733 A 20060202; JP 2007200351 A 20070809; JP 2011054187 A 20110317; JP 4261069 B2 20090430; JP 5044254 B2 20121010; KR 100505972 B1 20050804; KR 100914427 B1 20090828; KR 100922766 B1 20091021; KR 20010071332 A 20010728; KR 20030084947 A 20031101; KR 20070015480 A 20070202; KR 20080098450 A 20081107; PT 1548604 E 20100222; PT 1746513 E 20100712; SG 117466 A1 20051229; SG 131813 A1 20070528; SG 163430 A1 20100830; SG 186496 A1 20130130; TW 550454 B 20030901; US 6148354 A 20001114; US RE42397 E 20110524; US RE42443 E 20110607; US RE44641 E 20131210; US RE44653 E 20131217

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